



GÖKHAN KAPLAN

DOÇ. DR.

E-posta : gkaplan@atauni.edu.tr

Uluslararası Araştırmacı ID'leri

ScholarID: iXKDMtYAAAAJ

ORCID: 0000-0001-6067-7337

Publons / Web Of Science ResearcherID: HIZ-7664-2022

Yoksis Araştırmacı ID: 45998



Öğrenim Bilgisi

Doktora
2012 - 2018
Manisa Celal Bayar Üniversitesi, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği,
Türkiye

Yüksek Lisans
2009 - 2012
Gazi Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye

Lisans Yandal
2005 - 2009
Süleyman Demirel Üniversitesi, Türkiye

Yaptığı Tezler

Doktora, Çimento teknolojisinde sürfaktanların kullanımı ile sürdürülebilir çimento üretimi, Manisa Celal Bayar Üniversitesi, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği, 2018

Akademik Unvanlar / Görevler

Doç. Dr.
2022 - Devam Ediyor
Atatürk Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği

Dr. Öğr. Üyesi
2020 - 2022
Atatürk Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği

Desteklenen Projeler

- KAPLAN G., AYDIN A. C., ÖZ A., Yükseköğretim Kurumları Destekli Proje, Prepakt Betonlarda Atık Mermer Tozu ve Klinker Agregalı Geopolimer Bulamaçların Kullanılabilirliği, 2022 - 2023
- KAPLAN G., Yükseköğretim Kurumları Destekli Proje, Atapulgit Esaslı Alkaliler İle Aktive Edilen Malzemelerin

(AAM) Durabilite ve Mikroyapı Özellikleri, 2022 - 2022

3. KAPLAN G., Yükseköğretim Kurumları Destekli Proje, Hafif ve Yüksek Performanslı Çimento Esaslı Kompozitlerin Mikroyapı Özelliklerinin İncelenmesi, 2021 - 2021

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayımlanan Makaleler

1. **Innovative solutions on ductility and bearing capacity: Strengthening flexural performance of reinforced concrete beams with recycled face mask fibers**
ÖZDEMİR A., BOZYİĞİT B., Demircan R. K., MERCİMEK Ö., ÇELİK D. N., AKKAYA S. T., KAPLAN G.
Construction and Building Materials, cilt.458, 2025 (SCI-Expanded)
2. **Integration of reclaimed asphalt aggregates into glass fiber-reinforced alkali-activated composites: Mechanical performance and durability**
KILIÇ D., ÖZ A., Benli A., TORTUM A., KAPLAN G., AYDIN A. C.
Construction and Building Materials, cilt.458, 2025 (SCI-Expanded)
3. **Studying the metakaolin content, fiber type, and high-temperature effects on the physico-mechanical properties of fly ash-based geopolymer composites**
Bayrak B., Alcan H. G., Özelmacı Durmaz Ö. Ç., İpek S., KAPLAN G., Güneyisi E., AYDIN A. C.
Archives of Civil and Mechanical Engineering, cilt.25, sa.1, 2025 (SCI-Expanded)
4. **Recycling aerated concrete waste as aggregate to produce eco-friendly foamed mortar (EFM)**
Bayraktar O. Y., Sarıgül E., Yüksel M., Jamal A. S., Kara H. O., Ayyıldız M. A., KAPLAN G.
Structural Concrete, 2025 (SCI-Expanded)
5. **Sustainable foam concrete development: Enhancing durability and performance through pine cone powder and fly ash incorporation in alkali-activated geopolymers**
Bayraktar O. Y., Özel H. B., Benli A., Yılmazoğlu M. U., Türkel İ., Dal B. B., Şevik H., KAPLAN G.
Construction and Building Materials, cilt.457, 2024 (SCI-Expanded)
6. **Effective utilization of silica fume and waste colemanite in eco-sustainable prepacked geopolymers**
Alcan H. G., Benli A., ÖZ A., Bayrak B., KAPLAN G., AYDIN A. C.
Construction and Building Materials, cilt.457, 2024 (SCI-Expanded)
7. **Sustainable use of waste marble powder and reclaimed asphalt pavement as aggregates in slag/metakaolin-based self-compacting geopolymer composites: Properties and durability**
ÖZ A., KILIÇ D., Benli A., TORTUM A., KAPLAN G., AYDIN A. C.
Sustainable Chemistry and Pharmacy, cilt.42, 2024 (SCI-Expanded)
8. **Sustainable Use of Waste Tire Rubbers in Eco-Friendly and Lightweight Alkali-Activated Slag-Silica Fume Mortars**
Dheyaaldin M. H., Bayraktar O. Y., ÖZ A., KAPLAN G.
Journal of Materials in Civil Engineering, cilt.36, sa.12, 2024 (SCI-Expanded)
9. **Sustainable use of recycled fine aggregates in steel fiber-reinforced concrete: Fresh, flexural, mechanical and durability characteristics**
Benli A., Bayraktar O. Y., KÖKSAL F., KAPLAN G.
Journal of Building Engineering, cilt.97, 2024 (SCI-Expanded)
10. **Effect of hybrid fibers and high temperatures on the properties of geopolymer composites based on slag, metakaolin, and natural zeolite**
Tayeh B. A., Bayrak B., Zeyad A. M., KAPLAN G., ÖZ A., AYDIN A. C.
Construction and Building Materials, cilt.451, 2024 (SCI-Expanded)
11. **Effect of quaternary binder slag-based geopolymer slurries on mechanical durability and microstructural properties of green prepacked composites**
Alcan H. G., Dheyaaldin M. H., Toklu K., Bayrak B., Kaplan G., Aydın A. C.
Construction and Building Materials, cilt.450, 2024 (SCI-Expanded)
12. **Effect of $\text{Na}_2\text{SiO}_3/\text{NaOH}$ rate and natural zeolite content on basalt fiber reinforced eco-efficient slag-based geopolymer mortar synthesis**

Efe M., ÖZ A., Bayrak B., KAPLAN G., AYDIN A. C.

ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, cilt.24, sa.4, 2024 (SCI-Expanded)

13. **Engineering and microstructural properties of environmentally friendly alkali-activated composites containing clinker aggregate: heat-curing regime and elevated-temperature effect**
Bayrak B., İpek S., Alcan H. G., Kaplan G., Aydın A. C., Güneyisi E.
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14. **Performance assessment of fiber-reinforced coral aggregate-based lightweight foam concrete for sustainable marine construction**
Bayraktar O. Y., Danish A., Bodur B., Kaplan G., Aydın A. C., Ozbakkaloglu T.
Construction and Building Materials, cilt.449, 2024 (SCI-Expanded)
15. **A study on sustainable foam concrete with waste polyester and ceramic powder: Properties and durability**
Bayraktar O. Y., Tunçtan M., Benli A., Türkel İ., Kızılay G., KAPLAN G.
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16. **Enhancing foam concrete: A comparative analysis of PLA+ fiber reinforcements with plain, hooked, and corrugated fibers**
Yildizel S. A., Acik M., KAPLAN G., Bayraktar O. Y.
Construction and Building Materials, cilt.443, 2024 (SCI-Expanded)
17. **Effects of silica fume and rice husk ash contents on engineering properties and high-temperature resistance of slag-based prepacked geopolymers**
Bayrak B., Alcan H. G., Tanyıldızı M., Kaplan G., İpek S., Aydın A. C., Güneyisi E.
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18. **Mechanical and durability properties of polymer fiber reinforced one-part foam geopolymer concrete: A sustainable strategy for the recycling of waste steel slag aggregate and fly ash**
Ahiskalı A., Ahiskalı M., Bayraktar O. Y., KAPLAN G., Assaad J.
Construction and Building Materials, cilt.440, 2024 (SCI-Expanded)
19. **Experimental study of bond behavior of geopolymer concrete under different curing condition using a pull-out test**
Bayrak B., Akarsu O., KILIÇ M., Alcan H. G., ÇELEBİ O., KAPLAN G., AYDIN A. C.
Construction and Building Materials, cilt.439, 2024 (SCI-Expanded)
20. **Fracture performance of fiber reinforced geopolymer: Synergetic perspective**
Gumus M., Bayrak B., Alcan H. G., KAPLAN G., ÇELEBİ O., AYDIN A. C.
JOURNAL OF BUILDING ENGINEERING, cilt.91, 2024 (SCI-Expanded)
21. **Investigation on the sustainable use of different sizes of sawdust aggregates in eco-friendly foam concretes: Physico-mechanical, thermal insulation and durability characteristics**
Özkan İ. G. M., Aldemir K., Alhasan O., Benli A., Bayraktar O. Y., Yılmazoğlu M. U., KAPLAN G.
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22. **Durability of green rubberized 3D printed lightweight cement composites reinforced with micro attapulgite and micro steel fibers: Printability and environmental perspective**
Bodur B., Isik M. A. M., Benli A., Bayrak B., ÖZ A., Bayraktar O. Y., KAPLAN G., AYDIN A. C.
JOURNAL OF BUILDING ENGINEERING, cilt.90, 2024 (SCI-Expanded)
23. **Valorization of Seawater as an Activator for Mixing and Curing Water in Mid-Strength Concrete Containing Class C Fly Ash: Strength, Economic and Environmental Benefits**
ARUNTAŞ H. Y., Korkmaz Y., Demir İ., KAPLAN G.
Iranian Journal of Science and Technology - Transactions of Civil Engineering, cilt.48, sa.4, ss.2049-2059, 2024 (SCI-Expanded)
24. **Recycling of waste crushed stone powder for alkali-activated material production**
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25. **Impact of rice husk ash on physico-mechanical, durability and microstructural features of rubberized lightweight geopolymer composite**

- Abdullah M. Z., Bayraktar O. Y., Bassam A., Öz A., Mütevelli Ozkan I. G., Kaplan G.
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26. **Sustainable use of silica fume and metakaolin in slag/fly ash-based self-compacting geopolymer composites: Fresh, physico-mechanical and durability properties**
Arslan S., Öz A., Benli A., Bayrak B., Kaplan G., Aydın A. C.
Sustainable Chemistry and Pharmacy, cilt.38, 2024 (SCI-Expanded)
27. **Synergetic effect of fibers on geopolymers: Cost-effective and sustainable perspective**
Alcan H. G., Bayrak B., ÖZ A., ÇELEBİ O., KAPLAN G., AYDIN A. C.
CONSTRUCTION AND BUILDING MATERIALS, cilt.414, 2024 (SCI-Expanded)
28. **Physical, mechanical and microstructural properties of one-part semi-lightweight geopolymers based on metakaolin modified with gypsum and lime**
Shi J., Bayraktar O. Y., Bayrak B., Bodur B., Oz A., Kaplan G., Aydın A. C.
MATERIALS CHEMISTRY AND PHYSICS, cilt.313, ss.1-21, 2024 (SCI-Expanded)
29. **Performance assessment and cost analysis of slag/metakaolin based rubberized semi-lightweight geopolymers with perlite aggregate: Sustainable reuse of waste tires**
Bayraktar O. Y., Benli A., Bodur B., ÖZ A., KAPLAN G.
Construction and Building Materials, cilt.411, 2024 (SCI-Expanded)
30. **Assessment of the sustainability and producibility of adobe constructions reinforced with Ca-based binders: Environmental life cycle analysis (LCA) and 3D printability**
Genc G., Demircan R. K., BEYHAN F., KAPLAN G.
SCIENCE OF THE TOTAL ENVIRONMENT, cilt.906, 2024 (SCI-Expanded)
31. **Utilizing genetic programming to evaluate and predict roller-compacted concrete pavements reinforced with coal powder and basalt fiber**
Yilmaz A., YILDIZEL S. A., Bahrami A., KAPLAN G.
INTERNATIONAL JOURNAL OF PAVEMENT ENGINEERING, cilt.25, sa.1, 2024 (SCI-Expanded)
32. **Physio-mechanical, durability and microstructural properties of sustainable permeable concrete reinforced with basalt fiber: reuse and recycling of waste polypropylene**
Dogan I., Yildizel S. A., KAPLAN G.
Clean Technologies and Environmental Policy, 2024 (SCI-Expanded)
33. **Feasibility of foam concrete using recycled brick and roof tile fine aggregates**
Bayraktar O. Y., Ahiskalı A., Ahiskalı M., Ekşioğlu F., KAPLAN G., Assaad J.
European Journal of Environmental and Civil Engineering, 2024 (SCI-Expanded)
34. **Sustainable one-part alkali activated slag/fly ash Geo-SIFCOM containing recycled sands: Mechanical, flexural, durability and microstructural properties**
Bayraktar O. Y., Bozkurt T. H., Benli A., KÖKSAL F., Türkoğlu M., KAPLAN G.
Sustainable Chemistry and Pharmacy, cilt.36, 2023 (SCI-Expanded)
35. **The behavior of cold-formed steel geopolymeric composites**
KILIÇ M., Alcan H. G., ÇELEBİ O., Bayrak B., ÖZ A., Kaplan G., AYDIN A. C.
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36. **The Mechanical and Fracture Characteristics of Low Fiber Content Slurry-Infiltrated Fiber Concrete**
Gümüş M., Bayrak B., ÇELEBİ O., Alcan H. G., KAPLAN G., ÖZ A., AYDIN A. C.
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37. **Effect of aluminosilicate precursors and curing regime on physico-mechanical durability and microstructural characteristics of coral geopolymers (Cor-Geo): Cleaner production for coral islands**
Bayrak B., ÇELEBİ O., ÖZ A., USTABAŞ İ., KAPLAN G., AYDIN A. C.
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38. **Improving the eco-efficiency of fiber reinforced composite by ultra-low cement content/high FA-GBFS addition for structural applications: Minimization of cost, CO2 emissions and embodied energy**
KAPLAN G., Bayraktar O. Y., Li Z., Bodur B., Yilmazoglu M. U., Alcan B. A.

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39. **Metakaolin-based geopolymer concretes for nuclear protection: On the perspective of physicochemical, durability, and microstructure**
Bayrak B., Kaplan G., Öz A., Kavaz E., Çelebi O., Alcan H. G., Mohabbi M., Aydın A. C.
STRUCTURAL CONCRETE, cilt.24, sa.5, ss.6644-6671, 2023 (SCI-Expanded)
40. **Effect of using wastewater from the ready-mixed concrete plant on the performance of one-part alkali-activated GBFS/FA composites: Fresh, mechanical and durability properties**
Bodur B., Bayraktar O. Y., Benli A., KAPLAN G., Tobbala D. E., Tayeh B.
Journal of Building Engineering, cilt.76, 2023 (SCI-Expanded)
41. **The plastic hinge length prediction of RC members by using ANN**
Bayrak B., Akarsu O., KAPLAN G., AYDIN A. C.
Sadhana - Academy Proceedings in Engineering Sciences, cilt.48, sa.3, 2023 (SCI-Expanded)
42. **Effect of waste COVID-19 face masks on self-compacting high-strength mortars exposed to elevated temperature**
DURMUŞ G., Nur Çelik D., Kılıç Demircan R., KAPLAN G.
Ain Shams Engineering Journal, cilt.14, sa.8, 2023 (SCI-Expanded)
43. **Physico-mechanical and microstructural properties of waste geopolymer powder and lime-added semi-lightweight geopolymer concrete: Efficient machine learning models**
Da Silveira Maranhão F., De Souza Junior F. G., Soares P., Alcan H. G., Çelebi O., Bayrak B., Kaplan G., Aydın A. C.
Journal of Building Engineering, cilt.72, 2023 (SCI-Expanded)
44. **A comprehensive characterization on geopolymer concretes with low content slag and quartz aggregates: the shielding features**
Alcan H. G., Bayrak B., ÖZ A., KAVAZ E., KAPLAN G., ÇELEBİ O., AYDIN A. C.
RADIATION EFFECTS AND DEFECTS IN SOLIDS, cilt.178, sa.7-8, ss.769-798, 2023 (SCI-Expanded)
45. **Synergic effect of some waste pozzolans on the mechanical and shielding properties of geopolymer concretes**
Bayrak B., ÖZ A., KAVAZ E., KAPLAN G., ÇELEBİ O., Alcan H. G., AYDIN A. C.
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46. **Characterization study of geopolymer concretes fabricated with clinker aggregates**
Öz A., Bekem Kara İ., Bayrak B., Kavaz E., Kaplan G., Cüneyt Aydın A. C.
Construction and Building Materials, cilt.384, 2023 (SCI-Expanded)
47. **The effect of clinker aggregate on acid resistance in prepacked geopolymers containing metakaolin and quartz powder in the presence of ground blast furnace slag**
Bayrak B., Mostafa S. A., ÖZ A., Tayeh B. A., KAPLAN G., AYDIN A. C.
Journal of Building Engineering, cilt.69, 2023 (SCI-Expanded)
48. **Insulating and fire-resistant performance of slag and brick powder based one-part alkali-activated lightweight mortars**
KÖKSAL F., BAYRAKTAR O. Y., Bodur B., BENLİ A., KAPLAN G.
STRUCTURAL CONCRETE, cilt.24, sa.3, ss.3128-3146, 2023 (SCI-Expanded)
49. **The effect of animal and synthetic fibers on the physico-mechanical durability and microstructure properties of natural hydraulic lime-based mortars**
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50. **Optimization of without SCM concrete exposed to seawater according to minimum cost and CO2 emissions: Sustainable design with ABC algorithm**
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51. **Application of natural fibres in cement concrete: A critical review**
Hamada H. M., Shi J., Al Jawahery M. S., Majdi A., Yousif S. T., KAPLAN G.
Materials Today Communications, cilt.35, 2023 (SCI-Expanded)
52. **Effect of cement clinker type, curing regime and activator dosage on the performance of one-part**

alkali-activated hybrid slag/clinker composites

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53. **Mechanical, durability and microstructural characteristics of Portland pozzolan cement (PPC) produced with high volume pumice: Green, cleaner and sustainable cement development**
ULUSU H., Yılmaz Aruntaş H., Burcu Gültekin A., Dayı M., Çavuş M., KAPLAN G.
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54. **Physico-mechanical and shielding properties of alkali-activated slag composites incorporating cement clinker aggregate: Effect of high temperature and particle size**
Bayrak B., Öz A., Benli A., Kavaz E., Kaplan G., Aydın A. C.
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55. **The effect of geopolymer slurries with clinker aggregates and marble waste powder on embodied energy and high-temperature resistance in prepacked concrete: ANFIS-based prediction model**
KAPLAN G., ÖZ A., Bayrak B., AYDIN A. C.
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56. **The engineering properties of high strength mortars incorporating juniper seed ash calcined at different temperatures: Comparison with other SCMs**
ÇELİK D. N., Demircan R. K., Shi J., KAPLAN G., DURMUŞ G.
Powder Technology, cilt.422, 2023 (SCI-Expanded)
57. **Effect of waste colemanite and PVA fibers on GBFS-Metakaolin based high early strength geopolymer composites (HESGC): Mechanical, microstructure and carbon footprint characteristics**
ÖZ A., Bayrak B., KAPLAN G., AYDIN A. C.
Construction and Building Materials, cilt.377, 2023 (SCI-Expanded)
58. **Preparation and characterization of a novel prepacked aggregate geopolymer: A feasibility study**
KAPLAN G., Shi J., ÖZ A., Bayrak B., Dheyaaldin M. H., AYDIN A. C.
POWDER TECHNOLOGY, cilt.421, 2023 (SCI-Expanded)
59. **Performance evaluation and cost analysis of prepacked geopolymers containing waste marble powder under different curing temperatures for sustainable built environment**
Danish A., ÖZ A., Bayrak B., KAPLAN G., AYDIN A. C., Ozbakkaloglu T.
Resources, Conservation and Recycling, cilt.192, 2023 (SCI-Expanded)
60. **Physico-mechanical, thermal insulation and resistance characteristics of diatomite and attapulgite based geopolymer foam concrete: Effect of different curing regimes**
KAPLAN G., Yavuz Bayraktar O., Bayrak B., ÇELEBİ O., Bodur B., ÖZ A., AYDIN A. C.
Construction and Building Materials, cilt.373, 2023 (SCI-Expanded)
61. **The effect of steel fiber aspect-ratio and content on the fresh, flexural, and mechanical performance of concrete made with recycled fine aggregate**
Yavuz Bayraktar O., KAPLAN G., Shi J., Benli A., Bodur B., Turkoglu M.
Construction and Building Materials, cilt.368, 2023 (SCI-Expanded)
62. **Basalt fiber reinforced foam concrete with marble waste and calcium aluminate cement**
BAYRAKTAR O. Y., Yarar G., BENLİ A., KAPLAN G., GENÇEL O., SÜTÇÜ M., Kozłowski M., Kadela M.
STRUCTURAL CONCRETE, cilt.24, sa.1, ss.1152-1178, 2023 (SCI-Expanded)
63. **Hemp fiber reinforced one-part alkali-activated composites with expanded perlite: Mechanical properties, microstructure analysis and high-temperature resistance**
BAYRAKTAR O. Y., Tobbala D. E., Turkoglu M., KAPLAN G., Tayeh B. A.
CONSTRUCTION AND BUILDING MATERIALS, cilt.363, 2023 (SCI-Expanded)
64. **The use of waste marble for cleaner production of structural concrete: A comprehensive experimental study**
Gencil O., Nodehi M., Yavuz Bayraktar O., KAPLAN G., Benli A., KÖKSAL F., BİLİR T., Siddique R., Ozbakkaloglu T.
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65. **Development, characterization, and performance analysis of shape-stabilized phase change material included-geopolymer for passive thermal management of buildings**

- GENÇEL O., Harja M., SARI A., HEKİMOĞLU G., USTAOĞLU A., SÜTÇÜ M., ERDOĞMUŞ E., KAPLAN G., BAYRAKTAR O. Y.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, cilt.46, sa.15, ss.21841-21855, 2022 (SCI-Expanded)
66. **Characteristics, energy saving and carbon emission reduction potential of gypsum wallboard containing phase change material**
YARAŞ A., USTAOĞLU A., GENÇEL O., SARI A., Hekimoglu G., SÜTÇÜ M., ERDOĞMUŞ E., KAPLAN G., BAYRAKTAR O. Y.
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67. **Properties of eco-friendly foam concrete containing PCM impregnated rice husk ash for thermal management of buildings**
GENÇEL O., SARI A., KAPLAN G., USTAOĞLU A., HEKİMOĞLU G., BAYRAKTAR O. Y., Ozbakkaloglu T.
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68. **Usage of ready-mixed concrete plant wastewater in concrete with superplasticizer: Effect on physico-mechanical properties**
ARUNTAŞ H. Y., Nalli E., KAPLAN G.
CONSTRUCTION AND BUILDING MATERIALS, cilt.348, 2022 (SCI-Expanded)
69. **The radiation shielding and microstructure properties of quartzic and metakaolin based geopolymer concrete**
Öz A., Bayrak B., Kavaz E., Kaplan G., Çelebi O., Alcan H. G., Aydın A. C.
Construction and Building Materials, cilt.342, 2022 (SCI-Expanded)
70. **The effect of limestone and bottom ash sand with recycled fine aggregate in foam concrete**
GENÇEL O., Balci B., BAYRAKTAR O. Y., Nodehi M., SARI A., KAPLAN G., Hekimog G., Gholampour A., BENLİ A., Ozbakkaloglu T.
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71. **Mechanical durability and microstructural properties of sustainable high strength mortars ? ncorporated basalt fiber and copper slag: Taguchi optimization**
Abu Aeshah M. N. A., KAPLAN G.
CONSTRUCTION AND BUILDING MATERIALS, cilt.339, 2022 (SCI-Expanded)
72. **Foam Concrete Produced with Recycled Concrete Powder and Phase Change Materials**
GENÇEL O., Nodehi M., HEKİMOĞLU G., USTAOĞLU A., SARI A., KAPLAN G., BAYRAKTAR O. Y., SÜTÇÜ M., Ozbakkaloglu T.
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73. **Optimization of foam concrete characteristics using response surface methodology and artificial neural networks**
KURŞUNCU B., GENÇEL O., BAYRAKTAR O. Y., Shi J., Nematzadeh M., KAPLAN G.
CONSTRUCTION AND BUILDING MATERIALS, cilt.337, 2022 (SCI-Expanded)
74. **The effect of recycled fine aggregates treated as washed, less washed and unwashed on the mechanical and durability characteristics of concrete under MgSO₄ and freeze-thaw cycles**
Bayraktar O. Y., KAPLAN G., Benli A.
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75. **Effect of quartz powder on mid-strength fly ash geopolymers at short curing time and low curing temperature**
KAPLAN G., ÖZ A., Bayrak B., Alcan H. G., ÇELEBİ O., AYDIN A. C.
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76. **Basalt fiber-reinforced foam concrete containing silica fume: An experimental study**
Gencil O., Nodehi M., Bayraktar O. Y., KAPLAN G., Benli A., Gholampour A., Ozbakkaloglu T.
CONSTRUCTION AND BUILDING MATERIALS, cilt.326, 2022 (SCI-Expanded)
77. **Investigation of physico-mechanical, thermal properties and solar thermoregulation performance of shape-stable attapulgite based composite phase change material in foam concrete**
Gencil O., Ustaoglu A., Benli A., HEKİMOĞLU G., SARI A., Erdogmus E., Sutcu M., KAPLAN G., Yavuz Bayraktar O.
Solar Energy, cilt.236, ss.51-62, 2022 (SCI-Expanded)
78. **Usage of recycled fine aggregates obtained from concretes with low w/c ratio in the production of**

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Yayın: 177
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Araştırma Alanları

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